

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-4. (canceled)

5. (new) A portable fastener driving tool, comprising:

a main body;

a rod moveable within the main body and adapted to be driven forward by gas combustion or explosion;

a head part disposed at a front end of the main body and having a fastener guiding part;

a magazine removably attachable to the head part and for storing a plurality of fasteners connected with each other by a fastener connecting body; and

a power operated fastener feeding mechanism comprising:

a rotary feed member for feeding the fasteners one by one into the fastener guiding part to be driven from the head part by forward movement of the rod; and

an electric motor for driving the rotary feed member.

6. (new) The tool of claim 5, wherein

the magazine has a shape of a drum for housing the fastener connecting body wound either in a coil shape or a roll shape.

7. (new) The tool of claim 5, wherein the fastener feeding mechanism further comprises:

a first sensor for detecting a retracted position of the rod;

a second sensor for detecting the feeding of one of the fasteners into the fastener guiding part;

a brake for controllably stopping the motor from rotating the rotary feed member; and
a control circuit for

permitting the motor to rotate the rotary feed member for feeding one of the fasteners into the fastener guiding part upon a first detection of the first sensor that the rod is in the retracted position, and

energizing the brake to stop the motor from rotating upon a second detection of the second sensor that one of the fasteners has been fed into the fastener guiding part.

8. (new) The tool of claim 7, wherein the second sensor is arranged for detecting a rotation of the rotary feed member, said rotation being sufficient for feeding one of the fasteners into the fastener guiding part.

9. (new) The tool of claim 7, wherein
the fastener feeding mechanism further comprises a rotation detection gear rotatable together with the rotary feed member and having a plurality of troughs,
the second sensor comprises a contact member positionable in any one of said troughs;
and

a movement of the contact member from one trough to an adjacent trough, due to a rotation of the rotation detection gear together with the rotary feed member, corresponds to the feeding of one of the fasteners into the fastener guiding part.

10. (new) The tool of claim 9, wherein
the rotary feed member comprises a rotary feed gear; and
the rotary feed gear and the rotation detection gear have the same number of teeth.

11. (new) The tool of claim 7, wherein the first sensor comprises a contact member contactable with said rod except at said retracted position, thereby detecting the rod being in the retracted position when the contact member does not contact the rod.

12. (new) The tool of claim 7, wherein the control circuit is arranged for, in response to the second detection of the second sensor that one of the fasteners has been fed into the fastener guiding part, turning off the motor before energizing the brake.

13. (new) The tool of claim 5, wherein the rotary feed member comprises a rotary feed gear.

14. (new) The tool of claim 5, wherein the rotary feed member comprises multiple rotary gears for respectively engaging different parts of the fastener connecting body or different parts of the fasteners to be fed.

15. (new) The tool of claim 5, wherein the rotary feed member comprises an endless belt having thereon multiple protrusions for respectively engaging different parts of the fastener connecting body or different parts of the fasteners to be fed.

16. (new) An explosively actuated fastener driving tool, comprising:
an explosively actuated fastener driving mechanism; and
an electrically powered fastener feeding mechanism for feeding fasteners from a magazine associated with said tool to the fastener driving mechanism.

17. (new) The tool of claim 16, wherein the fastener feeding mechanism comprises
a rotary feed member for feeding the fasteners one by one to the fastener driving mechanism; and
an electric motor for driving the rotary feed member.

18. (new) The tool of claim 17, wherein the fastener feeding mechanism further comprises:

a brake for controllably stopping the motor from rotating the rotary feed member; and
a control circuit for

permitting the motor to rotate the rotary feed member for feeding one of the fasteners to the fastener driving mechanism upon a first detection that a fastener driving element of the fastener driving mechanism is in a retracted position, and

energizing the brake to stop the motor from rotating upon a second detection that one of the fasteners has been fed to the fastener driving mechanism.

19. (new) The tool of claim 18, wherein the control circuit is arranged for, in response to the second detection that one of the fasteners has been fed to the fastener driving mechanism, turning off the motor before energizing the brake.

20. (new) A combustion-powered fastener driving tool, comprising:

a combustion-powered fastener driving mechanism; and

an electrically powered fastener feeding mechanism for feeding fasteners from a magazine associated with said tool to the fastener driving mechanism.

21. (new) The tool of claim 20, wherein the fastener feeding mechanism comprises a rotary feed member for feeding the fasteners one by one to the fastener driving mechanism; and

an electric motor for driving the rotary feed member.

22. (new) The tool of claim 21, wherein the fastener feeding mechanism further comprises:

a brake for controllably stopping the motor from rotating the rotary feed member; and
a control circuit for

permitting the motor to rotate the rotary feed member for feeding one of the fasteners to the fastener driving mechanism upon a first detection that a fastener driving element of the fastener driving mechanism is in a retracted position, and

energizing the brake to stop the motor from rotating upon a second detection that one of the fasteners has been fed to the fastener driving mechanism.

23. (new) The tool of claim 22, wherein the control circuit is arranged for, in response to the second detection that one of the fasteners has been fed to the fastener driving mechanism, turning off the motor before energizing the brake.